UNIVERSITI TEKNOLOGI MARA

A SIMPLE ECONOMICAL ATMOMETER FOR MEASURING EVAPOTRANSPIRATION (ET) IN GREENHOUSE

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Final year project report submitted in partial fulfilment of the requirement for the degree of
Bachelor of Science (Hons.)
Plantation Technology and Management

Faculty of Plantation and Agrotechnology

January 2015

CANDIDATES DECLARATION

I declare that the work in this Final Year project was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the result of my own work, unless otherwise indicated or acknowledged as referenced work. The Final Year project report has not been submitted to any other academic institution or non-academic institution for any other degree or qualification

In the event that my Final Year Project is found to violate the conditions mention above, I voluntarily waive the right of conferment of my bachelor degree and agree to be subjected to the disciplinary rules and regulations of Universiti Teknologi MARA.

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ABSTRACT

This study aims to test the performance of simple economical atmometer, by watering the plant based on it, either it will give different result in term of yield, height of plant, number of leaves and fruiting time or there are no changes at all. This experiment was carried out for 50 days in medium technology greenhouse in UiTM Jasin, Melaka with the average temperature was 28°C to 32°C, average wind speed was 2km/h to 6km/h and the relative humidity was about 45% to 95% of saturation humidity. In this experiment, ET was measured using the simple economical atmometer and the chilli plant was irrigate based on it. This study also want to showed if there any significant different between the parameters. The result showed good performance of atmometer, also stated that there are no significant different in term of yield, height and number of leaves but there are significant different in term of fruiting time. On the other hand, in term of correlation, the result showed there was positive relationship and the yield can be estimated using the formula $y = mx + c$ that obtain from the regression.

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